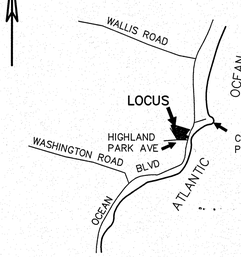
LOCUS MAP

NOT TO SCALE



SOIL CLASS: 140 CHATFIELD–HOLLIS–CANTON 397 IPSWICH

(SOURCE: USDA–SCS SOIL SURVEY)

BENCH MARKS: DATUM = NGVD (PLAN NOTE A)

#1	FOUND NAIL U–POLE EL 9.46
#2	SET PK APPROX EP EL 10.24
#3	FND NAIL COR TIES EL 9.23

DESIGN INTENT:

1. THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT ELEVATION 9.2
2. THERE IS/ARE APPROX 0 FT BELOW ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EDS. (EL 9.2)

SUITABLE REPLACEMENT AREA:

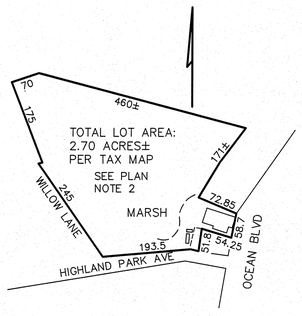
SYSTEM MUST BE REBUILT IN PLACE OR REDESIGNED.

LEGEND:

- 50 / (50) — EXISTING CONTOUR / PROPOSED CONTOUR
- 50.0 — EXISTING SPOT ELEVATION
- (50.0) — PROPOSED SPOT ELEVATION

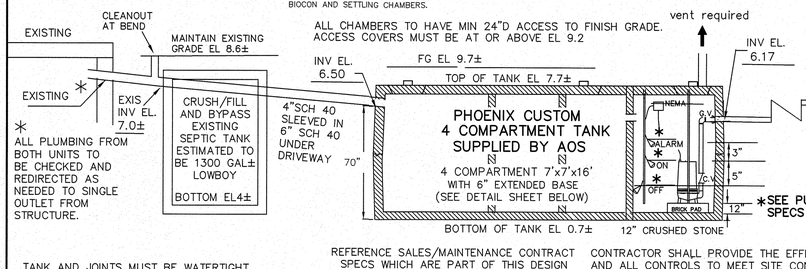
NOTES:

1. THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATED BASED ON INFORMATION FROM THE FOLLOWING SOURCE: SEE PLAN NOTES A AND B
2. NHDES–WS&PCD SUBDIVISION APPROVAL NUMBER: N/A LOT OF RECORD PRE 1967
   RCRD 1034–173(1945), RCRD 1355–264(1955)
3. THIS SYSTEM IS NOT DESIGNED TO HANDLE GARBAGE DISPOSAL, JACUZZI BATH, OR SEWAGE EJECTOR PUMP WASTE. BACKWASH FROM WATER SOFTENER SYSTEMS SHOULD BE DISCHARGED TO A SEPARATE DRYWELL.
4. DESIGNER MUST BE CONSULTED FOR ANY PROPOSED CHANGES OR ERRORS/DISCREPANCIES FOUND DURING SYSTEM INSTALLATION. (603 929–7404) INSTALLER IS RESPONSIBLE FOR ANY TOWN PERMITS OR INSPECTIONS REQUIRED FOR THIS INSTALLATION.
5. SUBJECT PROPERTY LIES WITHIN FEMA FLOOD HAZARD ZONES AE (EL 9) AND AO (DEPTH 1').

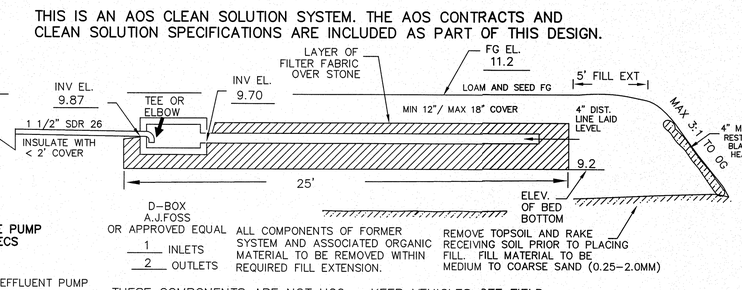


REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/7/2017
#eCA2017040703

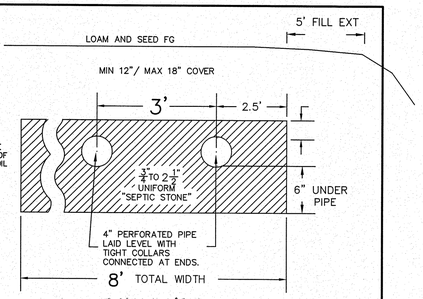
IF COVER EXCEEDS 24" CONTRACTOR SHALL PROVIDE 30"D RISERS AND COVERS TO GRADE.
IF COVER IS BETWEEN 36" AND 48" CONTRACTOR SHALL PROVIDE 36" DIAMETER ACCESS STACKS AND COVERS FOR THE BIOCON AND SETTLING CHAMBERS. IF COVER IS BEWTEEN 48" AND 60" CONTRACTOR SHALL PROVIDE 48"D ACCESS STACKS AND COVERS FOR BIOCON AND SETTLING CHAMBERS.


EXISTING
CLEANOUT AT BEND
MAINTAIN EXISTING GRADE EL 8.6±
EXISTING
EXIS INV EL. 7.0±
ALL PLUMBING FROM BOTH UNITS TO BE CHECKED AND REDIRECTED AS NEEDED TO SINGLE OUTLET FROM STRUCTURE.
CRUSH/FILL AND BYPASS EXISTING SEPTIC TANK ESTIMATED TO BE 1300 GAL± LOWBOY
BOTTOM EL4±
ALL CHAMBERS TO HAVE MIN 24"D ACCESS TO FINISH GRADE. ACCESS COVERS MUST BE AT OR ABOVE EL 9.2
INV EL. 6.50
FG EL 9.7±
TOP OF TANK EL 7.7±
4"SCH 40 SLEEVED IN 6" SCH 40 UNDER DRIVEWAY
70"
PHOENIX CUSTOM 4 COMPARTMENT TANK SUPPLIED BY AOS
4 COMPARTMENT 7'x7'x16' WITH 6" EXTENDED BASE
(SEE DETAIL SHEET BELOW)
vent required
INV EL. 6.17
NEMA
ALARM
VON
OFF
6'
3"
5"
12"
BRICK PAD
*SEE PUMP SPECS
BOTTOM OF TANK EL 0.7±
12" CRUSHED STONE
TANK AND JOINTS MUST BE WATERTIGHT. SEAL ALL UNUSED OUTLETS. MAINTAIN UNOBSTRUCTED ACCESS TO ALL CHAMBERS WITH RISERS AS PER ENV–WQ 1010.05 AND AOS CONCURRENCE.
REFERENCE SALES/MAINTENANCE CONTRACT SPECS WHICH ARE PART OF THIS DESIGN
CONTRACTOR SHALL PROVIDE THE EFFLUENT PUMP AND ALL CONTROLS TO MEET SITE CONDITIONS.

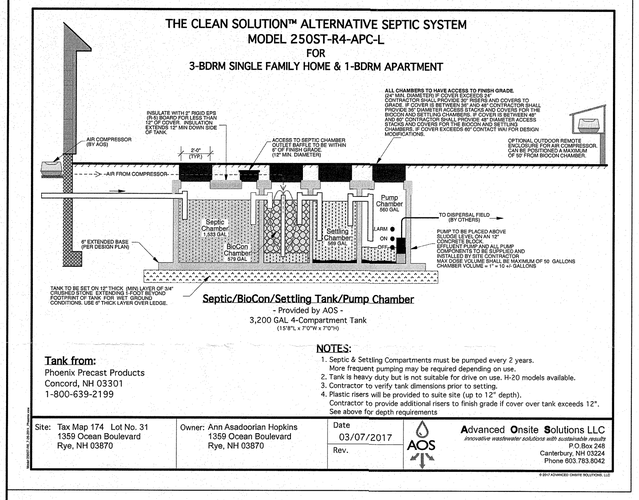
THIS IS AN AOS CLEAN SOLUTION SYSTEM. THE AOS CONTRACTS AND CLEAN SOLUTION SPECIFICATIONS ARE INCLUDED AS PART OF THIS DESIGN.


INV EL. 9.87
1 1/2" SDR 26
INSULATE WITH < 2' COVER
TEE OR ELBOW
INV EL. 9.70
LAYER OF FILTER FABRIC OVER STONE
FG EL. 11.2
LOAM AND SEED FG
5' FILL EXT
MIN 12"/ MAX 18" COVER
4" DIST. LINE LAID LEVEL
MAX 3:1 TO OG
4" MIN. RESTRICTIVE BLANKET OF HEAVY SOIL
9.2
25'
D–BOX A.J.FOSS OR APPROVED EQUAL
1 INLETS
2 OUTLETS
ALL COMPONENTS OF FORMER SYSTEM AND ASSOCIATED ORGANIC MATERIAL TO BE REMOVED WITHIN REQUIRED FILL EXTENSION.
ELEV. OF BED BOTTOM
REMOVE TOPSOIL AND RAKE RECEIVING SOIL PRIOR TO PLACING FILL. FILL MATERIAL TO BE MEDIUM TO COARSE SAND (0.25–2.0MM)

THESE COMPONENTS ARE NOT H20 – KEEP VEHICLES OFF FIELD.


5' FILL EXT
LOAM AND SEED FG
MIN 12"/ MAX 18" COVER
3'
2.5'
¾" TO 2½" UNIFORM "SEPTIC STONE"
6" UNDER PIPE
4" PERFORATED PIPE LAID LEVEL WITH TIGHT COLLARS CONNECTED AT ENDS.
8' TOTAL WIDTH

CROSS SECTION DISPOSAL SYSTEM – NOT TO SCALE


THE CLEAN SOLUTION™ ALTERNATIVE SEPTIC SYSTEM
MODEL 250ST-R4-APC-L
FOR
3-BDRM SINGLE FAMILY HOME & 1-BDRM APARTMENT
ALL CHAMBERS TO HAVE ACCESS TO FINISH GRADE.
AIR COMPRESSOR (BY AOS)
AIR FROM COMPRESSOR
ACCESS TO SEPTIC CHAMBER COVERS SHALL BE WITHIN 6" OF FINISH GRADE (10" MIN. DIAMETER)
OPTIONAL OUTDOOR REMOTE ENCLOSURE FOR AIR COMPRESSOR. SEE DETAIL FOR AIR COMPRESSOR OF 50' FROM BIOCON CHAMBER.
Septic Chamber 1,000 GAL
Biocon Chamber 675 GAL
Settling Chamber 675 GAL
Pump Chamber 560 GAL
TO DISPERSAL FIELD (BY OTHERS)
ALARM
ON
OFF
PUMP TO BE PLACED ABOVE SLUDGE IS VELOW AN 12" EFFLUENT PUMP AND ALL PUMP COMPONENTS TO BE SUPPLIED AND INSTALLED BY AOS. MAX DOSE VOLUME SHALL BE MAXIMUM OF 50 GALLONS CHAMBER VOLUME = 1" = 10 +/- GALLONS
6" EXTENDED BASE (PER DESIGN PLAN)
TANK TO BE SET ON 12" THICK (MIN.) LAYER OF 3/4" CRUSHED STONE. SLOPE TO BE NO 1 FOOT BEYOND FOOTPRINT OF TANK FOR INET GOOD SOIL CONDITIONS. USE 9" THICK LAYER OVER LEDGE.
Septic/BioCon/Settling Tank/Pump Chamber
- Provided by AOS -
3,200 GAL 4-Compartment Tank
(159"L x 75"W x 75"H)
NOTES:
1. Septic & Settling Compartments must be pumped every 2 years. More frequent pumping may be required depending on use.
2. Tank is heavy duty but is not suitable for drive on use. H-20 models available.
3. Contractor to verify tank dimensions prior to setting.
4. Plastic risers will be provided to suite site (up to 12" depth). Contractor to provide additional risers to finish grade if cover over tank exceeds 12". See above for depth requirements
Tank from:
Phoenix Precast Products
Concord, NH 03301
1-800-639-2199
Site: Tax Map 174 Lot No. 31
1359 Ocean Boulevard
Rye, NH 03870
Owner: Ann Asadoorian Hopkins
1359 Ocean Boulevard
Rye, NH 03870
Date 03/07/2017
Rev.
AOS
Advanced Onsite Solutions LLC
Innovative wastewater solutions with sustainable results
P.O Box 248
Canterbury, NH 03224
Phone 603.783.8042

PUMP SPECIFICATIONS

MYERS ME3 1/3HP EFFLUENT PUMP OR EQUIVALENT
WITH NEMA CONTROL PANEL, HIGH WATER ALARM
FLOATS TO BE SET APPROXIMATELY AS SHOWN TO GENERATE APPROX 50 GAL CYCLE
FOR 13± CYCLES PER DAY BASED ON 675GPD DESIGN LOADING FOR EXISTING USE.
PUMP WILL DELIVER APPROX 30 GPM AT 10' ESTIMATED TDH FOR 1.6 ± MINUTES PUMP RUNNING TIME.
ELECTRICAL CONTROLS MUST BE APPROVED BY PUMP MANUFACTURER.
Contractor shall provide the effluent pump and all controls to meet site conditions.

PLAN NOTES

PLAN NOTE A

EXISTING CONDITIONS PLAN FOR PROPERTY AT 1363 OCEAN BOULEVARD, RYE, ROCKINGHAM COUNTY, NH OWNED BY JAMES P. RYAN, KIMBERLY NEAL–RYAN, TAX MAP 174 LOT 32, NORTHEASTERLY SURVEYING INC, 191 STATE ROAD, STE #1, KITTERY, MAINE 03904 PROJECT 15771, 12/30/15

PLANS NOTE B

LAND IN RYE, NH, WM L. BARROWS TO ALFRED J. BERG, NILS NYSTROM, HARRY I. CASWELL, SCALE:1"=50', SEPT 1925, JOHN W, DURGIN, CIVIL ENGINEER, REVISED MAY 1937, FILE NO 310, PLAN NO 608.

PLAN OF LOT, RYE NORTH BEACH NH, SCALE 1"=10', MAY 1937, JOHN W. DURGIN, CIVIL ENGINEER. FILE 1921–1

WAIVERS REQUESTED FROM TOWN OF RYE SEPTIC STANDARDS:

7.9.2.5 SETBACKS : 75' FROM WETLANDS REQUIRED
TANK 13'± DISPERSAL AREA 16'± PROVIDED
7.9.3 BED BOTTOM 4' ABOVE ESHWT – 30" PROVIDED

WAIVERS REQUIRED FROM NHDES SUBSURFACE RULES:

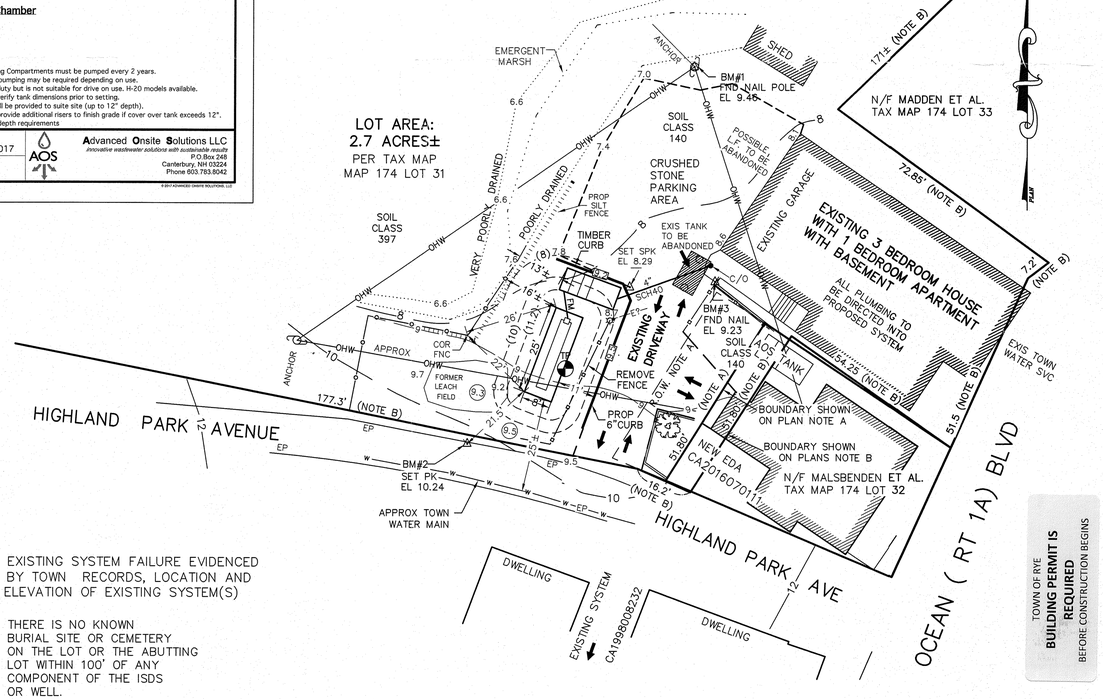
1008.04 SETBACKS : 50' TO HYDRIC B, 75' TO HYDRIC A
TANK 13'± TO HYD B, 24± TO HYD A PROVIDED
EDA 16'± TO HYD B, 23'± TO HYD A PROVIDED

1010.01(c) SEPTIC TANK CAPACITY
1250 GAL X 2 UNITS = 2500 GAL REQUIRED
1533 + 569 = 2102 GAL PROVIDED

PLAN : 1"=20'

APPROVED FOR REVIEW
TOWN OF RYE, NH
LOCATION 1359 Ocean Blvd
MAP# 017.4 LOT# 031
TOWN OFFICIAL:
DENNIS W PLANTE
DATE: 3/24/17
FOR REVIEW BY NHDES

APPROVED AS SUBMITTED
Date 3/28/17
By
RYE WATER DISTRICT
436-2596



EXISTING SYSTEM FAILURE EVIDENCED BY TOWN RECORDS, LOCATION AND ELEVATION OF EXISTING SYSTEM(S)

THERE IS NO KNOWN BURIAL SITE OR CEMETERY ON THE LOT OR THE ABUTTING LOT WITHIN 100' OF ANY COMPONENT OF THE ISDS OR WELL.

TOWN OF RYE
BUILDING PERMIT IS REQUIRED
BEFORE CONSTRUCTION BEGINS

SYSTEM OWNER IS RESPONSIBLE FOR THE FOLLOWING OPERATING REQUIREMENTS IN ADDITION TO THOSE OUTLINED IN AOS SALES AND MAINTENANCE CONTRACTS.

ENV–WS 1023.01 (a) SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR. (b) WHEN THE COMBINED THICKNESS OF SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.

ENV–WS 1023.02 TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTE SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV–WS 1023.03 TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV–WS 1023.04 TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK, AND OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD.

ENV–WS 1023.05 IF WET AREAS APPEAR ON THE GROUND SURFACE ABOVE THE DISTRIBUTION LINES OR LEACH FIELD OR IF DISAGREEABLE ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND CORRECTIVE ACTION SHALL BE TAKEN.

TP TEST PIT DATA

DATE: FEBRUARY 6, 2017

TOWN INSPECTOR: DENNIS PLANTE

TEST PIT #1 EL 9.2±

0 –12" 10YR3/3 FINE SANDY LOAM TOPSOIL, FRIABLE GRANULAR
12–36" 10YR3/4 LOAMY MED TO COARSE SAND FILL
GRANULAR LOOSE, HEAVILY MOTTLED BELOW 30"
36–48" 2.5Y3/2 SILT LOAM, MASSIVE FIRM, MOIST
BELOW 48" APPARENT CHANGE TO ORGANIC PEAT
ESHWT @ 30", NO OBSERVED WATER, NO REFUSAL TO 48"

PT PERC TEST DATA

DESIGN PERC RATE: N/A CLEAN SOLUTION SYSTEM

DESIGN LOADING: EXISTING 3 BEDROOM HOUSE WITH 1 BEDROOM APARTMENT

UNIT DESIGN FLOW: 450 + 225 = 675 GPD

ACTUAL WATER USAGE FOR 2016 = 80,000 GAL (PER RYE WATER DEPARTMENT)
80,000/365 = 219 AVERAGE GPD
219 X 2 = 438 GPD PEAK ACTUAL LOADING.

DISPERSAL AREA REQUIRED: 100–150 SF PER CLEAN SOLUTION GUIDELINES

LEACH FIELD AREA PROPOSED: 8' X 25' = 200 SF PROPOSED

PROPOSED REPLACEMENT

SEPTIC SYSTEM PLAN

EXISTING FAILED SYSTEM

LOCUS: 1359 OCEAN BOULEVARD
RYE, NH
TAX MAP 174 LOT 31

OWNER: ANN L. HOPKINS A/K/A ANN ASADOORIAN
1359 OCEAN BOULEVARD
RYE, NH 03870

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03842
603 929–7404

DATE: MARCH 15, 2017

APPROVAL:

NEW HAMPSHIRE Designer of Subsurface Disposal Systems ★★★ Anne W. Bialobrzeski No. 348 Department of Environmental Services